

CLAIMS

1. A handheld wireless communication apparatus comprising:
a housing;
5 a first input device carried on said housing;
a rotary input device carried on said housing and adjacent to and encircling said first input device;
a second input device carried on said housing;
a display carried on said housing substantially in-between said rotary input
10 device and said second input device; and
a speaker carried in said housing adjacent to said second input device.
2. The apparatus of claim 1, wherein said housing is an elongated housing,
having a long dimension and a short dimension.
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3. The apparatus of claim 2, wherein said rotary input device, said display, and said second input device are aligned substantially linearly along said long dimension of said elongated housing.
- 20 4. The apparatus of claim 1, wherein said rotary input device, said display, and said second input device are aligned substantially linearly.
5. The apparatus of claim 4, wherein said display is adjacent to said rotary input device and adjacent to said second input device such that said display is arranged
25 substantially in-between said rotary input device and said input device.
6. The apparatus of claim 5, wherein said first input device is a keypad.
7. The apparatus of claim 6, wherein said keypad includes a plurality of keys,
30 wherein an outer set of keys of said plurality of keys include an arcuate outer edge such that at least a portion of a perimeter of said keypad is in the shape of a circle.

8. The apparatus of claim 7, wherein said rotary input device encompasses said plurality of keys, such that said outer set of said keys are adjacent to said rotary input device.

5 9. The apparatus of claim 8, wherein said rotary input device rotates around said keypad.

10 10. The apparatus of claim 8, wherein said rotary input device is a circular capacitive sensor.

11. The apparatus of claim 8, wherein said second input device includes an audio passage coupled to said speaker.

15 12. The apparatus of claim 11, wherein said speaker is disposed in said second input device.

13. The apparatus of claim 14, wherein said input device is a multidirectional input device.

20 14. The apparatus of claim 13, wherein said multidirectional input device is a navigation input device.

25 15. The apparatus of claim 1, further comprising a microphone disposed in said housing.

16. The apparatus of claim 15, wherein said microphone is disposed at an end of said housing distal from said speaker.

30 17. The apparatus of claim 15, wherein said microphone is disposed in said housing substantially adjacent to said keypad.

18. The apparatus of claim 1, wherein said apparatus is configured in a horizontal configuration such that said rotary input device, said display, and said second input device are aligned substantially linearly and arranged horizontally, wherein information on said display, said first input device and said second input
5 device are in a horizontal information orientation.

19. The apparatus of claim 1, wherein said apparatus is configured in a vertical configuration such that said rotary input device, said display, and said second input device are aligned substantially linearly and vertically, wherein information on said
10 display, said first input device and said second input device are in a vertical information orientation.

20. A wireless communication apparatus comprising:
an elongated housing adapted to be held in a horizontal configuration and a
15 vertical configuration;
a keypad carried on said housing having a plurality of keys;
a first input device carried on said housing adjacent to said keypad and at least partially circumscribing said keypad;
a second input device carried on said housing;
20 an audio passage carried on said housing adjacent to said second input device;
a speaker carried in said housing and acoustically coupled to said audio passage;
and
a display carried on said housing, said display disposed between said keypad and said second input device such that said keypad, said display and said second input
25 device are oriented in a horizontal configuration.

21. The apparatus of claim 20, wherein said keypad, said display and said second input device are oriented along a longitudinal axis of said elongated housing.

30 22. The apparatus of claim 20, further comprising a microphone.

23. The apparatus of claim 20, wherein said first input device encompasses said keypad.

5 24. The apparatus of claim 20, wherein said display presents information in a first information orientation when said apparatus is in said horizontal configuration, and wherein said display presents information in a second information orientation when said apparatus is in a vertical configuration.

10 25. The apparatus of claim 20, wherein said at least one button is readable in said horizontal configuration and said at least one button is readable in said vertical configuration.

15 26. The apparatus of claim 20, wherein said speaker is disposed in said input device.

20 27. The apparatus of claim 24, wherein said keypad rotates to a first keypad orientation when said apparatus is in said horizontal configuration, and wherein said keypad rotates to a second keypad orientation for said apparatus in said vertical configuration.

28. A wireless communication apparatus comprising:

an elongated housing having a front surface, a first end and a second end;

a transceiver carried in said housing;

a controller carried in said housing, said controller coupled to said transceiver;

5 a microphone carried in said housing;

a multi-key keypad carried on said front surface of said elongated housing
adjacent said first end of said housing, said multi-key keypad coupled to said controller;

a speaker port on said front surface of said housing, said speaker port adjacent
said second end of said housing;

10 a speaker navigation input located at the speaker port, the speaker navigation
input coupled to the controller;

a rotating input circumscribing said multi-key keypad, the rotating input
coupled to said controller; and

15 a display carried on the housing between said rotating input and said speaker
port, said display coupled to said controller.